

T10220.ST25
SEQUENCE LISTING

<110> Keener, William K

<120> Plasmids Encoding Therapeutic Agents

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<170> PatentIn version 3.2

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<211> 75

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<213> Artificial

<220>

<223> Oligonucleotide OC-1 for making pwkk-700.

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--	----

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75

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<220>
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 <213> Artificial

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 <223> oligonucleotide OC-5 for making pwKK-700.

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<210> 24
 <211> 73
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide OC-3 for making pwKK-700.

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<210> 25
 <211> 75
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide OC-4 for making pwKK-700.

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<210> 26
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<220>

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<223> pwkk-800

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 <213> Artificial

<220>
 <223> oligonucleotide AB-2 primer for making pWKK-800.

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gttcttcagg	cgcg 75

<210> 28
 <211> 75
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide AB-3 primer for making pWKK-800.

<400> 28	
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tgaagaacaa	caacc 75

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<210> 29
 <211> 73
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide AB-5 primer for making pwKK-800.

<400> 29
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 tctcaaaatc ctc 73

<210> 30
 <211> 69
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide AB-1 primer for making pwKK-800.

<400> 30
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 cttgaatcc 69

<210> 31
 <211> 69
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide AB-4 primer for making pwKK-800.

<400> 31
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 cccatgccg 69

<210> 32
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Lethal factor cleavable sequence.

<400> 32
 Pro Lys Lys Lys Pro Thr Pro Ile Gln Leu Asn Pro Ala
 1 5 10

<210> 33
 <211> 47
 <212> DNA
 <213> Artificial

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<220>
<223> pwKK-900 upper oligonucleotide in cassette encoding lethal factor cleavable peptide sequence.

<400> 33
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<210> 34
<211> 39
<212> DNA
<213> Artificial

<220>
<223> pwKK-900 lower oligonucleotide in cassette encoding lethal factor cleavable peptide sequence.

<400> 34
gccggattgg cctggatagg agtaggtttc ttcttaggc 39

<210> 35
<211> 2788
<212> DNA
<213> Artificial

<220>
<223> pwKK-21

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<211> 46
<212> DNA
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<220>

<223> Cassette encoding HIV protease-cleavable peptide linker.

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46

<210> 37

<211> 2805

<212> DNA

<213> Artificial

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<223> pWKK-15

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gaactctaga gagcttgga ctggccgctg ttttacaacg tcgtgactgg gaaaaccctg	2760
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<210> 38

<211> 12

<212> PRT

<213> Ricinus communis

<400> 38

Val	Ser	Ile	Leu	Ile	Pro	Ile	Ile	Ala	Leu	Met	Val
1				5					10		

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<210> 39
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 39

Ser Pro Tyr Ser Ser Asp Thr Thr Pro Cys Cys Phe Ala Tyr Ile Ala
 1 5 10 15

Arg Pro Leu Pro Arg Ala His Ile Lys Glu Tyr Phe Tyr Thr Ser Gly
 20 25 30

Lys Cys Ser Asn Pro Ala Val Val Phe Val Thr Arg Lys Asn Arg Gln
 35 40 45

Val Cys Ala Asn Pro Glu Lys Lys Trp Val Arg Glu Tyr Ile Asn Ser
 50 55 60

Leu Glu Met Ser
 65

<210> 40
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 40

Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
 1 5 10 15

His Val Ala Arg Ala Asn Val Lys His Leu Lys Ile Leu Asn Thr Pro
 20 25 30

Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys Asn Asn Asn Arg Gln
 35 40 45

Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys
 50 55 60

Ala Leu Asn Lys Arg Phe Lys Met
 65 70

<210> 41
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 41

Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
 1 5 10 15

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His Val

<210> 42
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> Alternative HIV protease cleavable linker.

<400> 42

Ser Ala Thr Ile Met Met Gln Arg Gly Asn
 1 5 10

<210> 43
 <211> 23
 <212> PRT
 <213> Artificial

<220>
 <223> Hydrophilic linker (out-of-frame buforin II).

<400> 43

Ile Glu Gly Arg Thr Ser Val Ser Ser Arg Pro Gln Gly Ser Ser Pro
 1 5 10 15

Leu Thr Glu Val Val Leu Glu
 20